# **3M**

# **Electrical Spring Connector 412**

# **Data Sheet**



### **Application**

The 3M<sup>TM</sup> Electrical Spring Connector 412 will electrically connect copper conductors in a pigtail application.

#### Wire

#### **AWG Range**

Copper conductors only, No. 22 through 8 solid and/or stranded.

(See wire matrix for specific combinations)

#### **Metric Range**

Copper conductors only, .5mm<sup>2</sup> thru 6mm<sup>2</sup> ridged (solid or stranded).

#### Construction

**Spring -** Spring steel, corrosion-resistant coating **Insulator** – PVC

# Weight

0.0068 lbs (3,1 grams)

#### **Performance Test**

The following tests were performed to the specifications of UL Standard 486C and CSA Standard C22.2 No. 188.

| Static Heating               | Pass    |
|------------------------------|---------|
| Secureness                   | Pass    |
| Pullout                      | Pass    |
| Dielectric Voltage Withstand | Pass    |
| Secureness of Insulation     | Pass    |
| Flammability                 | V2 Min. |

## **Engineering Specification**

3M Spring Connector 412 is capable of a 1 conductor termination or a 2 or more conductor connection in a pigtail application. The connector shall be UL listed and CSA certified as a pressure wire connector. The connector shall be rated 600 volts maximum for building wire and 1000 volts maximum for lighting fixtures. The connector shall have a maximum operating temperature of 105°C (221°F).

### **Installation Instructions**



#### Caution

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

- 1. Strip wire insulation ½ inch.
- Firmly grasp wires and ensure conductor ends are even. Conductors may be twisted or untwisted.
- 3. Place connector over the stripped conductor tips.
- Turn connector on in a clockwise direction until secure.
- To remove, turn connector counterclockwise.

# **Regulatory Agencies**

**UL Listed** as a Wire Connector, tested per UL Standard 486C, UL File No. E23438 Operating Temperature: 105°C (221°F) Voltage Rating: 600 volts max building wire, 1000 volts max signs and fixtures.

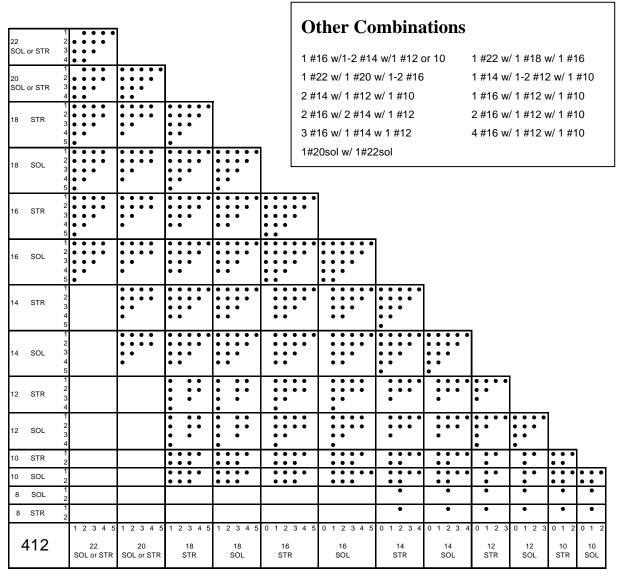
#### **CSA Certified**

CSA Standard C22.2 No. 188, CSA File No. LR15503

Operating Temperature: 105°C (221°F)

Voltage Rating: 600 volts max building wire, 1000 volts max signs and fixtures.

#### **Wire Matrix**



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